

**STATEMENT OF WORK (SOW)  
FOR DEPOT LEVEL REPAIR AND UPGRADE OF  
RADIO TERMINAL SET, AN/GSQ-239 CONSISTING OF:  
RADIO SET, AN/GSQ-240 (INFORMALLY CALLED JTIDS CLASS 2M TERMINAL)  
INDICATOR CONTROL PANEL, C-12041/GSQ-239  
DESIGN MODELS ADM/EDM RADIO TERMINAL SET AND SUBASSEMBLIES**

**Contractor Repair Statement of Work - Advanced Design Models/Engineering Design Models (ADM/EDM)**

## **1.0 INTRODUCTION**

This SOW establishes the minimum work requirements for the essential maintenance and repair necessary to restore the repairable ADM/EDM terminals and their subassemblies to a serviceable condition. The contractor shall also provide services to upgrade, update, and retrofit the ADM/EDM terminals and subassemblies. ADM/EDM configuration is defined as those terminals built up to and including the K600A225-70 configuration.

### **1.1 SCOPE**

This SOW establishes contractor depot level repair requirements for the ADM/EDM Radio Sets, Indicator Control Panel (ICP), and subassemblies.

**1.2 REPAIR** is defined as: The application of maintenance services including (1) fault location/troubleshooting, (2) removal/installation and disassembly/assembly, (3) procedures and maintenance actions, (4) identify troubles and restore serviceability to an item by correcting specific damage, fault, malfunction, or failure in a subassembly.

(1) Services - inspect, test, service, adjust, align, calibrate, and/or replace.

(2) Fault locate/troubleshoot - The process of investigating and detecting the cause of equipment malfunctions; the act of isolating a fault within a system or unit under test.

(3) Disassembly/assembly - encompasses the step-by-step taking apart (or breakdown) of a spare/functional group coded item to the level of its least componentry identified as maintenance significant (i.e., assigned a Source Maintenance Recoverability (SMR) code for the category of maintenance under consideration.

(4) Actions - Welding, grinding, riveting, straightening, facing, remachining, and/or resurfacing.

## **2.0 REQUIREMENTS/REPAIR CONCEPT**

**2.1** All work performed by the contractor shall be accomplished IAW instructions and requirements contained in this work statement.

**2.1.1** The contractor shall not design, develop or manufacture tooling or test equipment of a specialized nature as a requirement under this SOW without express direction of the Procurement Contracting Officer (PCO) through the Administrative Contracting Officer (ACO). In the event the contractor cannot acquire replacement parts due to obsolescence, . . . .

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2.1.2 The contractor shall expend no effort under this SOW for engineering design or development of the end items or components.

2.1.3 The functional capabilities for which the end item was designed shall not be changed, modified, or altered.

2.1.4 The Contractor shall provide services, materials, and facilities necessary to repair assemblies and subassemblies of the ADM/EDM family as described herein at the contractor's facilities.

2.1.5 End items that are repaired at the contractor's facility shall be repaired, to include final packaging within the maximum absolute turn around time (TAT) in calendar days from the date of receipt of authorization. The TATs shall be as follows:

Radio Set AN/GSQ-240	120 days
RTSA and Blower Assembly	120 days
All other SRUs	90 days
Indicator Control Panel C-12041/GSQ-239	90 days

2.1.5.1 In the event that the contractor determines during the repair of the unserviceable item that the time to repair will exceed the TATs given above in para. 2.1.5 or the NTEs in para. 2.2.2.1, the contractor shall provide notification to the PCO/ACO ten (10) days prior to the deadline with an expected date of completion. If a situation occurs that further affects the TAT or NTE cost, contractor shall notify the government within 24 hours of having made the new assessment.

2.2 The contractor shall repair, adjust, assemble, test, preserve, and pack as required for all assemblies, subassemblies, or other parts of the ADM/EDM family determined by the Government to require such services at the contractor's facility.

2.2.1 The contractor shall not exchange SRUs between terminals without the written authorization of the PCO/ACO.

2.2.2 In the event that the contractor determines during the repair that the cost for repairing the unserviceable item will exceed the Not To Exceed (NTE) Unit Repair Price of para. 2.2.2.1, the contractor shall notify the PCO/ACO for further direction and instructions. If the contractor, prior to repair of the item determines the repair will exceed the NTE Unit Repair Price, the contractor will submit an estimate to the PCO/ACO for authorization before proceeding with the repair.

2.2.2.1 The contractor shall adhere to para. 2.2.2 of this SOW when the contractor determines the repair cost will exceed the NTE Unit Repair Price of the item. This determination will be made by utilizing the chart shown below:

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<b>JTIDS Subassembly</b>	<b>NTE Unit Repair Price</b>				
	<b>CY03</b>	<b>CY04</b>	<b>CY05</b>	<b>CY06</b>	<b>CY07</b>
Radio Set, AN/GSQ-240	<b>\$37,400</b>				
Blower Assembly/Power Conditioner	<b>\$11,400</b>				
Receiver/Transmitter Subassembly (RTSA)	<b>\$23,200</b>				
Indicator Control Panel C-12041/GSQ-239	<b>\$11,400</b>				
All other SRUs	<b>\$11,000</b>				

**2.2.3 Preservation:** The contractor, upon receipt of the equipment, shall afford the minimum protection necessary to preserve the equipment while in storage prior to being placed into the repair cycle. The contractor shall be responsible for maintaining and preventing damage to Government furnished property/equipment while being moved, handled, disassembled, inspected repaired, reassembled, and stored. The contractor shall heed any warnings or caution labels.

**2.2.4** The contractor shall maintain a piece part lay-in as necessary to conduct depot repairs. Parts or materials used shall be equal to or exceed the original requirements of technical data cited herein and/or Government approved technical data. The contractor shall ensure that all Government Furnished Equipment (GFE) remains in useable, fully operational condition and ready for use.

**2.2.5** All repairs shall be to the approved product baseline. After repair, the item shall be tested by the contractor to verify that it is fully operational. Procedures used for verifying operational performance shall be based upon existing functional test procedures. Verification shall be accomplished by the contractor. A Government representative may be present to witness verification. The government reserves the right to apply acceptance test procedures to verify the repair of extensively damaged assemblies.

**2.3** The DD Form 1348 shall be the document which will indicate that the item shipped to the contractor is an authorized repair. If the NTE requirements of para. 2.2.2 are satisfied, the contractor shall conduct the repair upon receipt. The contractor shall then perform an inspection/evaluation, repair, acceptable functional test. Defense Contract Management Area Office Quality Assurance Representative (DCMAO QAR) may be present to witness the inspection/evaluation, repair, and/or acceptable functional test.

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2.3.1 Upon receipt each item shall be unpacked, preservation protection removed (if any), and inspected to ensure proper identification, completeness, and identification of missing modules/subassemblies. The contractor shall also check for any shipping damage and ensure the correctness of accompanying paperwork/documentation. DCMAO Quality Assurance Representative (QAR) shall verify the contractor's findings. Any deficiencies found as a result of the above inspection shall be brought to the attention of the PCO/ACO, who will provide further instructions concerning the deficient items.

2.3.2 Inspection and Functional Test: Prior to initial functional test, an inspection is to be performed to determine if visual defects exist, such as loose wires or components, broken or missing parts, burnt components, and the existence of foreign matter. After these defects have been corrected, a functional test is to be performed.

2.3.3 After completion of the inspection procedures per paras. 2.3.1 and 2.3.2 above, the contractor shall troubleshoot, test, and evaluate the item to determine the extent of repair. The DCMAO QAR may be present to witness and verify the initial inspection and work estimates. If the Government elects not to repair the item, the contractor shall be paid for any labor and costs incurred in making the degree of necessary repair determination.

2.4 Corrosion Control: During inspection and functional test, the presence of corrosion on components shall constitute a reason for a more thorough disassembly and assembly. Disassembly should be made to the extent necessary to remove corrosion or replace parts. Corroded parts are to be replaced, except in those cases where removal of corrosion from a part shall not impair the efficiency or life of a part, (e.g., a small spot of corrosion on the case of a sealed relay.). Corrosion removal and treatment of affected area is to be accomplished in accordance with (IAW) generally accepted commercial shop practices and procedures.

2.5 Maintenance: Work performed under this contract includes all work necessary to return a repairable item to a serviceable condition. The required repair shall be accomplished IAW applicable technical data.

2.5.1 Subassemblies found to be in serviceable condition as a result of inspection and functional test are to be returned. The contractor shall inform the user that no faults were found.

2.5.2 All work shall be subject to Government acceptance inspection and will conform to the requirements in paras. 2.2.4 and 2.2.5 of this work statement and applicable technical data.

2.5.3 Packaging Requirements. After each item has been repaired, inspected, and accepted it must be then be repackaged prior to shipment. Preservation, packing, and marking for shipment shall be in accordance with section "D" of the contract. Maximum use shall be made of the packaging materials in which the equipment was originally received. Reusable containers may also be used if available. Upon satisfactory completion of final tests, the contractor shall cover and seal all parts, vents, and electrical connections/plugs with suitable caps to prevent damage during handling and shipment.

2.6 The cost of shipment of defective items shall be the responsibility of the government.

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2.6.1 Upon completion, the repaired assets shall be returned to the originating unit using the same shipping document under which the item was received. A copy of the official shipping shall be sent to the PCO. An information copy of the shipping shall be provided to the following:

US Army CECOM  
ATTN: AMSEL-LC-COM-R-AS  
Fort Monmouth, NJ 07703-5000

US Army CECOM  
C3I Acquisition Center  
ATTN: AMSEL-ACCB-RT-M  
Fort Monmouth, NJ 07703-5008

2.7 Shipment shall be via Government Bill of Lading (GBL) - Freight On Board (FOB) origin unless otherwise specified. The contractor shall contact the government for shipping instructions of repaired terminals prior to shipment.

2.8 Scrap and residue generated from Government owned property, as confirmed by DCMAO, shall be disposed of IAW Normal Plant Clearance Procedures.

### **3.0 RETROFIT/UPGRADE**

3.1 The contractor shall retrofit and upgrade any accepted ADM/EDM terminal as directed by the PCO. These changes will be made on a time and material basis.

3.2 The contractor shall provide the government with a cost estimate of the requested upgrade or retrofit for review and approval. The contractor shall not retrofit or upgrade any terminal without government approval.

3.3 After upgrade, the item shall be tested by the contractor to verify that it is operational. Procedures used for verifying operational performance shall be based upon existing functional test procedures. Verification shall be accomplished by the contractor. A Government representative may be present to witness verification.

3.4 The contractor shall contact the government for shipping instructions of upgraded terminals prior to shipment.

### **4.0 QUALITY CONTROL REQUIREMENTS**

4.1 The contractor shall establish a documented acceptance and quality control system in accordance with ISO-9000, or any other contractor's plan submitted and approved by the Government.

### **5.0 REPORTING DATA**

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5.1 In the event problems arise, which need to be clarified by the Government, the contractor shall define said problems, in writing, to the PCO with information copy to the DCMAO ACO.

5.2 The contractor shall maintain records of all work pursuant to this SOW. Reports shall be available for inspection and review.

**6.0 GOVERNMENT FURNISHED EQUIPMENT (GFE) - TEST, MEASUREMENT, AND  
DIAGNOSTIC EQUIPMENT (TMDE), AND SPECIAL TOOLS**

6.1 The contractor shall list and separately price any recommended additional test equipment required for maintenance support for use during the contract maintenance period. The contractor shall justify the intent for use of the test equipment and what the equipment consists of and what hook up is required.

6.2 The contractor shall be responsible for calibration and maintenance support of TMDE in para. 6.1. Upon termination of the contract and transition to another depot facility, this equipment shall be provided with current calibration certification, all operation/maintenance manuals made available, and in good operating condition to the Government.

6.3 The contractor shall not use the test equipment purchased under this contract for purposes other than repair of the items in this SOW without the approval of the Government. The contractor shall obtain this approval from the ACO/PCO prior to use.

**7.0 TECHNICAL SUPPORT**

7.1 The contractor shall provide on-call technical and maintenance support within a mutually agreed upon time frame on an as required basis. The contractor shall provide on-site technical/maintenance assistance to the Government to resolve problems beyond the capability of the government/military technicians. The contractor will provide resolution to the problem either telephonically or by sending a technician(s) to the particular site. The support will be from the BAE New Jersey facility and will include, but not be limited to, the following sites:

Fort Lewis, WA.  
Fort Bliss, TX  
White Sands Missile Range, NM  
V Corps, Germany  
Camp Stanley, Korea  
Fort Campbell, KY

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Fort Hood, TX  
Fort Carson, CO  
Fort Stewart, GA  
Saudi Arabia  
LITTON (California)  
Fort Drum, NY  
Huntsville, AL

7.2 The contractor shall provide on-site technical assistance as required to advise on remedial actions necessary for equipment restoral or repair. Assistance shall be provided to verify the operational condition of a restored equipment.

7.3 The contractor shall provide technicians for no more than one week for each visit. This support task will be on a time and material basis.

**8.0 DEFINITION OF TERMS**

- a. "ADM" - Advanced Design Models
- b. "Acceptance Test" - the function and operation of the end item will be checked and tested to assure serviceability.
- c. "ACO" - Administrative Contracting Officer.
- d. "AMDF" - Army Master Data File.
- e. "Calibration" - a comparison between two instruments, one of which is a standard of known accuracy, to detect and correlate or adjust any variation in the accuracy of the instrument being repaired.
- f. "End item" - defined as the AN/GSQ-239 Radio Set.
- g. "EDM" - Engineering Design Model
- h. "Essential repair" - the minimal parts, labor and operations authorized and necessary to restore a repairable item to a fully operational condition.
- i. "DCMAO" - Defense Contract Management Area Office.
- j. "Inspection" - a thorough and searching examination of the end item to determine its identity and condition.

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- k. "NTE" - Not To Exceed
- l. "PCO" - Procurement Contracting Officer.
- m. "PM TRCS" - Program Manager Tactical Radio Communication Systems
- n. "QAR" - Quality Assurance Representative.
- o. "Repackage" - defined as preserving and packing the subassemblies and terminals, which have been repaired. Repackaging must be performed prior to shipment of repaired items.
- p. "Repairable" - an unserviceable recoverable item that may be repaired, updated/modified, and restored to a serviceable condition.
- q. "Serviceable" - capable of meeting the requirements and performing the function for which designed or modified and meets all test requirements established by the latest Government approved and Acceptance Test Procedures.
- r. "Technical Data" - all Government Specifications, approved drawings and acceptance test procedures, Technical Manuals (TMs), and all other technical documentation necessary to repair the end items to a serviceable condition.
- s. "update" - the action of incorporating approved changes that are not considered changes to the ADM/EDM configuration. Updates are to be incorporated during the repair process.
- t. "upgrade" - considered to be the action of incorporating an approved configuration change to the existing ADM/EDM configuration. Upgrades will be separately funded.
- u. "TMDE" - Test, Measurement, and Diagnostic Equipment

**Notes to the PCO**

1. The contractor is authorized to purchase from the Government, material required to perform the repairs, via funded MILSTRIP requisitions. The contractor shall requisition those materials from the Government IAW Army Regulation 725-50. The contractor is authorized 02 Priority Requisitioning Authority. Specific supplemental addresses and other special coding necessary for requisition processing will be provided to the



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contractor at the time of award. The Government requires a 30 day lead time from receipt of the requisition to delivery at the contractor's facility. These materials will not be provided free of charge.